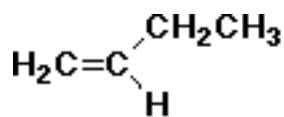


Crystal ball questions on Types of Reactions

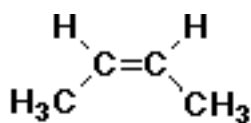
All of the following questions have not (as yet!) appeared in the NCEA Level 2 Exams

1)

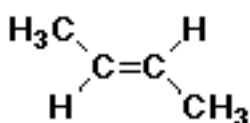
The following substances are all isomers of C_4H_8



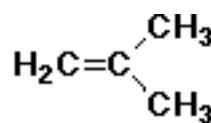
1-butene



cis-2-butene



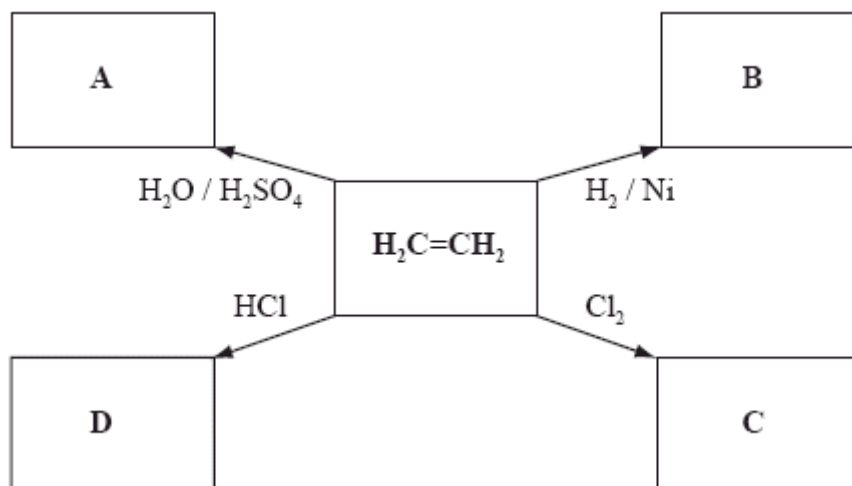
trans-2-butene



2-methylpropene

- Which of the isomers could be formed from 2-methylpropanol by the elimination of water
- State the reagents and conditions by which this reaction could be carried out in the laboratory

2) Complete the boxes below and name the type of each reaction



3) Use organic molecules containing 3 carbon atoms to describe the following types of reactions, name the reactant and product for each example. Include the reagents and conditions required.

acid base

hydrolysis

elimination

bromination

hydrogenation

substitution

addition

dehydration

oxidation